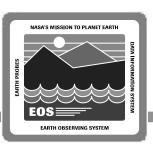


Off-Line Jon Kuntz

22 May 1996

FOS Off-Line



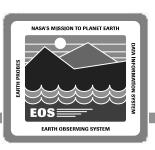
Command Management

Data Management

Analysis

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Command Management



PAS/CMS Interface (Design Change)

 PAS now includes commands within the activities, eliminating the need for CMS to access the activity database

Load Generation (Design Change)

- Partitions are determined using command boundaries, not activity boundaries, to ensure continuity of commands
- Refined inheritance structure for load classes
- During ATC load generation an ODF will be utilized, rather than accessing Sybase directly, increases processing performance time

Command Management



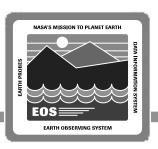
Spacecraft Model/Image Processing (Design Change)

 Separated the memory mapping and the image (dump) processing creating a new process - Image Processing, to improve performance and allow for multiple actions to occur simultaneously

Miscellaneous Changes (Design Change)

- Generation of command binary being shared with R/T command
- Identified and isolated additional AM1 specific functionality, improves extensibility & evolvability
 - AM1 load types
 - AM1 command types

Data Management



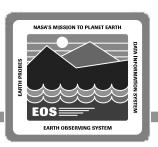
Sybase Interface Tool (Design Change)

- Replaced DBXcessory with Internet browser to access Sybase
 - Provides access to PDB tables, file metadata, telemetry catalog, and event archive
 - Retains all required functionality
 - Provides opportunity for tremendous growth and flexibility

Real-Time Interface to Sybase (Design Change)

 Designed and implemented multiple Sybase server processes to access load information, file metadata, telemetry catalog, event definitions, and event archive

Data Management



FDF Validation (Design Change)

 Enhanced the design to utilize Sybase capabilities to perform most of the validation on FDF products

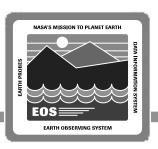
Event Database (Design Change)

- Modified the design to store events in Sybase in lieu of UNIX files
 - Added double buffering scheme to alleviate potential bottlenecks
 - Sybase provides faster access and better search capabilities
 - Provides access to the event archive via Internet browser

EDOS Interface (Requirements Change)

Updated the design to accommodate new EDOS ftp requirements

DMS Changes



Project Data Base (Design Change)

- Continued working with the AM1 project to refine the interface for receipt of the I&T database
 - Documented in the AM1 DFCD
- Updated FOS Data Base table structures to accommodate the changes in the interface agreement
- Modified the telemetry and command validation procedures to coincide with refinements to the database

Operational Data Files (Design Change)

 Generated additional ODF's to accommodate design modifications by the subsystems

Analysis



Parameter Interface (Design Change)

 Modified the design to utilize the refined FOS standardized interface for receipt of parameter data

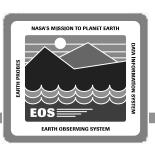
System Statistics (Design Change)

- Modified the algorithm which uses day/night orbital statistics to generate the daily and monthly intervals to improve performance
- Modifications provided to support data processing with partial data for an interval

Request Manager (Design Change)

 Added feature to allow user to specify a request be processed locally rather than "farmed" to another UserStation

Analysis



Solid State Recorder (Design Change)

- Enhanced the design to include the concept of planning and recommending partial playbacks of the SSR buffers
- Enhanced the design to include a scheme for looking ahead at planned activities to aid in establishing playback priorities

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